Prateek Kumar

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EDUCATION

B.Tech in Engineering Science | *Indian Institute Of Technology, Jodhpur(India)*   Grad 2026 | CGPA: 6.41 (current)
Class XII | *New Rajastan Public School, Jhunjunu, Rajasthan*   Grad 2021 | 87.00%
Class X | *Godavaribai Ramdev Podar School, Nawalgarh, Rajasthan*   Grad 2019 | 91%

EXPERIENCE

Festival Chief, Varchas 2024 | *Indian Institute Of Technology, Jodhpur*   Aug 2024 – Oct 2024 | Jodhpur
- Led a cross-functional team of 50+ members, including the web development team, to design and launch the official Varchas 2024 website, which attracted 5,000+ unique visitors in 30 days, ensuring a seamless user experience and real-time updates.
- Managed a budget of 2.1 million rupees other than institutes 1.75 million, optimising resource allocation for web development, marketing, and event operations while generating 1.7 million from registrations and 0.4 million through sponsorships, ensuring financial sustainability.
- Spearheaded the development and deployment of the event's digital platform, integrating responsive design and real-time data tracking, resulting in a 30% increase in participant engagement compared to the previous year.

PROJECTS

E-commerce store(Currently Working) | *Self Project* | Github **(Node.js, Redis, MongoDB, JWT, React.js)**   12/2024 – Current
- Built a full-stack e-commerce platform using Node.js, React.js, and MongoDB, featuring JWT authentication, Redis caching, and RESTful APIs for product management, user authentication, and shopping cart functionality.
- Developed secure backend systems with role-based access, Cloudinary for image storage, and Redis for performance optimization, following MVC architecture and best practices for scalability and maintainability.

NewsApp | *Self Project* | Github **(React.js, Bootstrap, APIs)**   07/2024 – 08/2024
- Developed a dynamic news application using ReactJS, Bootstrap, and the News API to display news articles categorised by topics such as education, entertainment, and by country. The app features a user-friendly interface and real-time news updates.
- Implemented a filtering news feature based on different tags with a responsive web design and flexible user experience.

Landmine Detection System | *Course Project* | Github **(IoT, Sensors, Raspberry Pi, Python)**   01/24 – 05/2024
- Developed a landmine detection system using a Raspberry Pi and an IR thermal sensor to identify potential landmines. Enabled integration with various devices for real-time detection and monitoring within the same network.
- Implemented an interface for viewing and analysing sensor data on any device connected to the same network, enhancing safety and efficiency in mine detection operations.

SKILLS

- **Languages:** C/C++, HTML, CSS, JavaScript, R, Python
- **Technologies:** ReactJS, NodeJS, MongoDB, Tailwind, Matplotlib, Numpy, Pandas, Matlab
- **Skills:** Machine Learning, Deep Learning, Competitive Programming
- **Utilities:** Git, GitHub, LaTeX

KEY COURSES TAKEN

Introduction to C	Machine Learning	Data Structures and Algorithms	Digital Image Analysis
Computer Architecture	Operating System	Probability and Statistics	Computer Networks
Database Management System	Embedded Systems And IoT	Process Control and Its AI Applications	Linear Algebra

ACHIEVEMENTS

- Ranked in the top **8%** among **1 million candidates** in JEE Mains 2022, demonstrating strong problem-solving and analytical skills essential for software development and algorithm design.
- Selected for project exhibition in **DRDO** at IIT Jodhpur for my landmine detection project.
- Changed branch from **Materials Engineering** to **Engineering Science** with **specialisation in Computer Science**

POSITIONS OF RESPONSIBILITY

- **Assistant Head, Varchas'23** - Working in the Marketing vertical, Managing the overall budget for the event.
- **Student Guide** - Mentored 11 students to familiarize them with the culture and environment of IIT Jodhpur.
- **Assistant Head, Ignus'23** - Worked in the Event Management vertical, where we organised and managed the cultural events.